

1653



1600

P#16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/043,944

DATE: 10/17/2002

TIME: 10:07:23

Input Set : A:\48231A_pctus_SEQLIST.ST25.txt

Output Set: N:\CRF4\10172002\I043944.raw

3 <110> APPLICANT: Greenwald, Iva
 4 Levitan, Diane
 6 <120> TITLE OF INVENTION: IDENTIFICATION OF SEL 12 AND USES THEREOF
 8 <130> FILE REFERENCE: 0575/48231-A-PCT-US
 10 <140> CURRENT APPLICATION NUMBER: 09/043,944
 11 <141> CURRENT FILING DATE: 1998-03-27
 13 <150> PRIOR APPLICATION NUMBER: PCT/US96/15727
 14 <151> PRIOR FILING DATE: 1996-09-27
 16 <150> PRIOR APPLICATION NUMBER: 60/004,387
 17 <151> PRIOR FILING DATE: 1995-09-27
 19 <160> NUMBER OF SEQ ID NOS: 27
 21 <170> SOFTWARE: PatentIn version 3.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 461
 25 <212> TYPE: PRT
 26 <213> ORGANISM: C. elegans
 28 <220> FEATURE:
 29 <221> NAME/KEY: misc_feature
 30 <223> OTHER INFORMATION: Fig. 1A
 33 <400> SEQUENCE: 1

35 Met Pro Ser Thr Arg Arg Gln Gln Glu Gly Gly Gly Ala Asp Ala Glu
 36 1 5 10 15
 39 Thr His Thr Val Tyr Gly Thr Asn Leu Ile Thr Asn Arg Asn Ser Gln
 40 20 25 30
 43 Glu Asp Glu Asn Val Val Glu Glu Ala Glu Leu Lys Tyr Gly Ala Ser
 44 35 40 45
 47 His Val Ile His Leu Phe Val Pro Val Ser Leu Cys Met Ala Leu Val
 48 50 55 60
 51 Val Phe Thr Met Asn Thr Ile Thr Phe Tyr Ser Gln Asn Asn Gly Arg
 52 65 70 75 80
 55 His Leu Leu Ser His Pro Phe Val Arg Glu Thr Asp Ser Ile Val Glu
 56 85 90 95
 59 Lys Gly Leu Met Ser Leu Gly Asn Ala Leu Val Met Leu Cys Val Val
 60 100 105 110
 63 Val Leu Met Thr Val Leu Ile Val Phe Tyr Lys Tyr Lys Phe Tyr
 64 115 120 125
 67 Lys Leu Ile His Gly Trp Leu Ile Val Ser Ser Phe Leu Leu Phe
 68 130 135 140
 71 Leu Phe Thr Thr Ile Tyr Val Gln Glu Val Leu Lys Ser Phe Asp Val
 72 145 150 155 160
 75 Ser Pro Ser Ala Leu Leu Val Leu Phe Gly Leu Gly Asn Tyr Gly Val
 76 165 170 175
 79 Leu Gly Met Met Cys Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln

RECEIVED

OCT 25 2002

TECH CENTER 1600/2900

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/043,944

DATE: 10/17/2002
TIME: 10:07:23

Input Set : A:\48231A_pctus_SEQLIST.ST25.txt
Output Set: N:\CRF4\10172002\I043944.raw

80	180	185	190
83	Phe Tyr Leu Ile Thr Met Ser Ala Leu Met Ala Leu Val Phe Ile Lys		
84	195	200	205
87	Tyr Leu Pro Glu Trp Thr Val Trp Phe Val Leu Phe Val Ile Ser Val		
88	210	215	220
91	Trp Asp Leu Val Ala Val Leu Thr Pro Lys Gly Pro Leu Arg Tyr Leu		
92	225	230	235
95	240	245	250
96	255	260	265
99	270	275	280
100	285	290	295
103	300	305	310
104	315	320	325
107	335	340	345
108	350	355	360
111	365	370	375
112	380	385	390
115	395	400	405
116	410	415	420
119	425	430	435
120	440	445	450
123	455	460	
124			
127			
128			
131			
132			
135			
136			
139			
140			
143			
144			
147			
148			
151	<210> SEQ ID NO: 2		
152	<211> LENGTH: 467		
153	<212> TYPE: PRT		
154	<213> ORGANISM: human		
156	<220> FEATURE:		
157	<221> NAME/KEY: misc_feature		
158	<223> OTHER INFORMATION: Fig. 2A S182		
161	<400> SEQUENCE: 2		
163	Met Thr Glu Leu Pro Ala Pro Leu Ser Tyr Phe Gln Asn Ala Gln Met		
164	1	5	10
167	15	20	25
168	30	35	40
171	Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu Gly His Pro Glu		
172	45		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/043,944

DATE: 10/17/2002
TIME: 10:07:23

Input Set : A:\48231A_pctus_SEQLIST.ST25.txt
Output Set: N:\CRF4\10172002\I043944.raw

175 Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu
176 50 55 60
179 Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
180 65 70 75 80
183 His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val
184 85 90 95
187 Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
188 100 105 110
191 Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg
192 115 120 125
195 Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val
196 130 135 140
199 Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
200 145 150 155 160
203 Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Leu Phe Phe
204 165 170 175
207 Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala
208 180 185 190
211 Val Asp Tyr Val Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val
212 195 200 205
215 Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala
216 210 215 220
219 Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr
220 225 230 235 240
223 Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr
224 245 250 255
227 Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val
228 260 265 270
231 Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr
232 275 280 285
235 Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu
236 290 295 300
239 Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr
240 305 310 315 320
243 Glu Arg Glu Ser Gln Asp Thr Val Ala Glu Asn Asp Asp Gly Gly Phe
244 325 330 335
247 Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg
248 340 345 350
251 Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ser Ile
252 355 360 365
255 Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly
256 370 375 380
259 Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
260 385 390 395 400
263 Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
264 405 410 415
267 Gly Leu Cys Leu Thr Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
268 420 425 430
271 Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/043,944

DATE: 10/17/2002
TIME: 10:07:23

Input Set : A:\48231A_pctus_SEQLIST.ST25.txt
Output Set: N:\CRF4\10172002\I043944.raw

272 435 440 445
275 Thr Asp Tyr Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln
276 450 455 460
279 Phe Tyr Ile
280 465
283 <210> SEQ ID NO: 3
284 <211> LENGTH: 157
285 <212> TYPE: PRT
286 <213> ORGANISM: C. elegans
288 <220> FEATURE:
289 <221> NAME/KEY: MISC_FEATURE
290 <222> LOCATION: (11)..(11)
291 <223> OTHER INFORMATION: unknown amino acid
294 <400> SEQUENCE: 3
W--> 296 Glu Gly Lys Ser Pro Ser Asn Thr Glu Arg Xaa Val Ile Met Leu Phe
297 1 5 10 15
300 Val Pro Val Thr Leu Cys Met Ile Val Val Val Ala Thr Ile Lys Ser
301 20 25 30
304 Val Arg Phe Tyr Thr Glu Lys Asn Gly Gln Leu Ile Tyr Thr Pro Phe
305 35 40 45
308 Thr Glu Asp Thr Pro Ser Val Gly Gln Arg Leu Leu Asn Ser Val Leu
309 50 55 60
312 Asn Thr Leu Ile Met Ile Ser Val Ile Val Val Met Thr Ile Phe Leu
313 65 70 75 80
316 Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys Phe Ile His Gly Trp Leu
317 85 90 95
320 Ile Met Ser Ser Leu Met Leu Leu Phe Leu Phe Thr Tyr Ile Tyr Leu
321 100 105 110
324 Gly Glu Val Leu Lys Thr Tyr Asn Val Ala Met Asp Tyr Pro Thr Leu
325 115 120 125
328 Leu Leu Thr Val Trp Glu Leu Arg Gly Ser Gly His Gly Val His Pro
329 130 135 140
332 Leu Glu Gly Ala Phe Gly Ala Ala Glu Ala Tyr Leu Ser
333 145 150 155
336 <210> SEQ ID NO: 4
337 <211> LENGTH: 465
338 <212> TYPE: PRT
339 <213> ORGANISM: C. elegans
341 <220> FEATURE:
342 <221> NAME/KEY: misc_feature
343 <223> OTHER INFORMATION: Fig. 2A SPE-4
346 <400> SEQUENCE: 4
348 Met Asp Thr Leu Arg Ser Ile Ser Ser Glu Leu Val Arg Ser Ser Gln
349 1 5 10 15
352 Leu Arg Trp Thr Leu Phe Ser Val Ile Ala Asn Met Ser Leu Thr Leu
353 20 25 30
356 Ser Ile Trp Ile Gly Val Tyr Asn Met Glu Val Asn Ser Glu Leu Ser
357 35 40 45
360 Lys Thr Tyr Phe Leu Asp Pro Ser Phe Glu Gln Thr Thr Gly Asn Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/043,944

DATE: 10/17/2002
TIME: 10:07:23

Input Set : A:\48231A_pctus_SEQLIST.ST25.txt
Output Set: N:\CRF4\10172002\I043944.raw

361	50	55	60													
364	Leu	Leu	Asp	Gly	Phe	Ile	Asn	Gly	Val	Gly	Thr	Ile	Leu	Val	Leu	Gly
365	65					70					75					80
368	Cys	Val	Ser	Phe	Ile	Met	Leu	Ala	Phe	Val	Leu	Phe	Asp	Phe	Arg	Arg
369							85				90					95
372	Ile	Val	Lys	Ala	Trp	Leu	Thr	Leu	Ser	Cys	Leu	Leu	Ile	Leu	Phe	Gly
373							100				105					110
376	Val	Ser	Ala	Gln	Thr	Leu	His	Asp	Met	Phe	Ser	Gln	Val	Phe	Asp	Gln
377							115			120					125	
380	Asp	Asp	Asn	Asn	Gln	Tyr	Tyr	Met	Thr	Ile	Val	Leu	Ile	Val	Val	Pro
381							130			135					140	
384	Thr	Val	Val	Tyr	Gly	Phe	Gly	Gly	Ile	Tyr	Ala	Phe	Phe	Ser	Asn	Ser
385	145					150					155					160
388	Ser	Leu	Ile	Leu	His	Gln	Ile	Phe	Val	Val	Thr	Asn	Cys	Ser	Leu	Ile
389							165			170					175	
392	Ser	Val	Phe	Tyr	Leu	Arg	Val	Phe	Pro	Ser	Lys	Thr	Thr	Trp	Phe	Val
393							180			185					190	
396	Leu	Trp	Ile	Val	Leu	Phe	Trp	Asp	Leu	Phe	Ala	Val	Leu	Ala	Pro	Met
397							195			200					205	
400	Gly	Pro	Leu	Lys	Lys	Val	Gln	Glu	Lys	Ala	Ser	Asp	Tyr	Ser	Lys	Cys
401							210			215					220	
404	Val	Leu	Asn	Leu	Ile	Met	Phe	Ser	Ala	Asn	Glu	Lys	Arg	Leu	Thr	Ala
405	225						225				230					240
408	Gly	Ser	Asn	Gln	Glu	Glu	Thr	Asn	Glu	Gly	Glu	Glu	Ser	Thr	Ile	Arg
409							245				250					255
412	Arg	Thr	Val	Lys	Gln	Thr	Ile	Glu	Tyr	Tyr	Thr	Lys	Arg	Glu	Ala	Gln
413							260			265					270	
416	Asp	Asp	Glu	Phe	Tyr	Gln	Lys	Ile	Arg	Gln	Arg	Arg	Ala	Ala	Ile	Asn
417							275			280					285	
420	Pro	Asp	Ser	Val	Pro	Thr	Glu	His	Ser	Pro	Leu	Val	Glu	Ala	Glu	Pro
421							290			295					300	
424	Ser	Pro	Ile	Glu	Leu	Lys	Glu	Lys	Asn	Ser	Thr	Glu	Glu	Leu	Ser	Asp
425	305						305			310			315			320
428	Asp	Glu	Ser	Asp	Thr	Ser	Glu	Thr	Ser	Ser	Gly	Ser	Ser	Asn	Leu	Ser
429							325			330			330			335
432	Ser	Ser	Asp	Ser	Ser	Thr	Thr	Val	Ser	Thr	Ser	Asp	Ile	Ser	Thr	Ala
433							340			345			345			350
436	Glu	Glu	Cys	Asp	Gln	Lys	Glu	Trp	Asp	Asp	Leu	Val	Ser	Asn	Ser	Leu
437							355			360			365			
440	Pro	Asn	Asn	Asp	Lys	Arg	Pro	Ala	Thr	Ala	Ala	Asp	Ala	Leu	Asn	Asp
441							370			375			380			
444	Gly	Glu	Val	Leu	Arg	Leu	Gly	Phe	Gly	Asp	Phe	Val	Phe	Tyr	Ser	Leu
445	385						385			390			395			400
448	Leu	Ile	Gly	Gln	Ala	Ala	Ala	Ser	Gly	Cys	Pro	Phe	Ala	Val	Ile	Ser
449							405			410			410			415
452	Ala	Ala	Leu	Gly	Ile	Leu	Phe	Gly	Leu	Val	Val	Thr	Leu	Thr	Val	Phe
453							420			425			425			430
456	Ser	Thr	Glu	Glu	Ser	Thr	Thr	Pro	Ala	Leu	Pro	Leu	Pro	Val	Ile	Cys
457							435			440			440			445

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/17/2002
PATENT APPLICATION: US/09/043,944 TIME: 10:07:24

Input Set : A:\48231A_pctus_SEQLIST.ST25.txt
Output Set: N:\CRF4\10172002\I043944.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 11